

PATENT ABSTRACTS OF JAPAN

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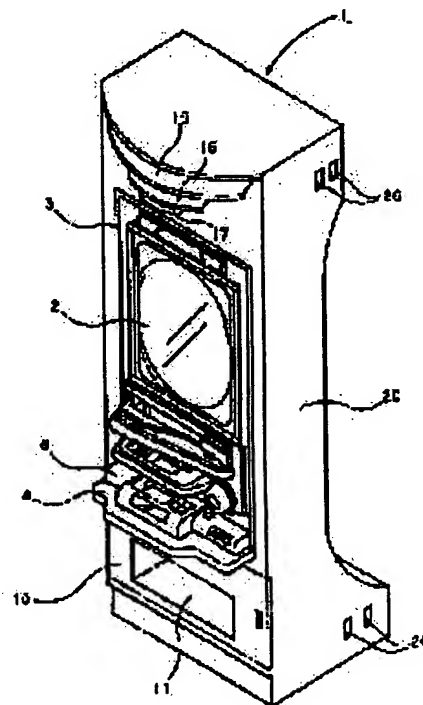
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(54) FUNCTIONAL INDEPENDENT PINBALL MACHINE

(57)Abstract:

PURPOSE: To provide an epoch-making playing device with a simple configuration which allows itself to be easily installed by building all related parts involved in the operation of pinball machines into an independent installation frame so that the device and related parts are integrally formed.

CONSTITUTION: A functional independent pinball machine 1 is hinged to a front frame door 3 provided with a mechanism for providing from the behind a single pinball machine 2 at the front central part of a frame 20 and has a counter 4 with a return ball count device 8 provided in the front frame door 3 so that the counter 4 can be easily removed. A closing door 10 with a fencing part 11 is provided at the waist part of the frame 20 in a manner that the door 10 can easily be opened and closed and a lighting device 15 and a calling device are formed at the top of the frame 20. The pinball machine 2 includes a polishing device and a ball collection mechanism which are linked, has internally provided a count managing computer and a deposit ball receipt issuance mechanism, and is formed so that the computer and a power line can be connected to a main line. This allows an epoch-making island configuration which is very effective in economic and industrial terms.



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DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Industrial Application] this invention relates to the pachinko equipment characterized by having made all the associated equipment about pachinko machine operation with the independent equipment built-in according to each base, and constituting it possible [connection] free.

[0002]

[Description of the Prior Art] Since Original Engineering Consult. was usual, therefore island alternating current equipment changed respectively with the number of pachinko machine installation and the hole situations of a hole, **** manufacture with the specification product which carried out homogeneity was impossible for the conventional pachinko **** composition. For the reason, after engineering-drawing completion of a hole, **** made **** manufacture start there be nothing, and the manufacture number of a short period of time was also limited. Moreover, also in ****, the complicated routing took many helps and construction periods. For example, as a pachinko **** manufacture means, the wooden-flask group of 1 **** units (six sets, four sets, two etc. sets, etc.) is beforehand formed corresponding to the number of pachinko machine hold, more than one are connected according to the installation total number of 1 ****, and series-like **** is formed.

[0003] A manufacture means to by_ which the equipment which circulates through the sphere which furthermore arranges large-sized **** transfer-by-lifting equipment in the center of ****, forms a makeup tank in the upper part, forms a large-sized reservoir tank in the lower part, and is discharged from each pachinko machine in relation to this **** transfer-by-lifting equipment smoothly with island alternating current equipment used **** more than required and large-scale equipment as an original product could not be mass-produced, and had many problems also in economical efficiency and workability.

[0004]

[Problem(s) to be Solved by the Invention] Without being related to what hole situation by carrying out built-in equipment of all the associated parts that accompany pachinko machine operation into the framework for pachinko machine independent installation, and really considering as formation, this invention offers the epoch-making game equipment considered as simplicity and deferred type composition, is the equalized specification product and makes mass-production organization possible.

[0005]

[Means for Solving the Problem] The functional independent type pachinko equipment applied to this invention in order to attain said purpose It forms free [connection and fixation of the framework of the abbreviation rectangle attached decoratively per pachinko machine]. Hinge front **** on this framework transverse plane, and a pachinko machine is formed in a center section possible [a decoration] free [attachment and detachment] in the shape of a frame. Equip with a return sphere counter on the counter of this front ****, and it forms free [opening and closing of the opening-and-closing door which prepared the shelf in the bottom of this front ****]. Lighting and a call mechanism are formed in this front **** upper part, computer management of nothing and the circulation ball is carried out by distinction so that the ball of a constant rate may circulate automatically via a pachinko machine and a return sphere counter in this framework, and it is characterized by constituting so that a display and a printer mechanism may be interlocked with.

[0006]

[Function] All the section supplies that accompany operation of the pachinko machine 2 are built in a framework 20, and installation composition is carried out in arbitrary arrays by the connection section 26 and the fixed part 27 which were prepared in the side of a framework 20. In exchange of the pachinko machine 2 and maintenance, before **** 3 is opened wide, and attachment and detachment are made free. Moreover, based on a game person's game condition, management through figures is carried out with the return sphere counter 8. Moreover, it is constituted so that distinction management of a ball on hire and the circulation ball as awarded balls may be carried out with a computer means. The out sphere socket 21 is accumulated, and the sphere discharged from the pachinko machine 2 flows into a upper tank 24 via polish equipment 22 and the transfer-by-lifting machine 23, and is introduced to the awarded-balls tank 25 of the pachinko machine 2.

[0007]

[Example] With reference to a drawing, this invention is explained in detail below. front **** 3 which drawing 1 shows the

whole functional standalone version pachinko equipment 1 (following pachinko equipment and abbreviated name) perspective diagram, and drawing 2 makes the attachment section of the pachinko machine 2 of pachinko equipment 1 -- opening -- a view is shown the bottom

[0008] If the composition of pachinko equipment 1 is explained further in full detail, by abbreviation pachinko machine 2 breadth, the front face of the box which formed the framework 20 in the shape of a cross-section abbreviation rectangle will be covered with an ornament board, and opening formation of the attachment section of the pachinko machine 2 will be carried out in the center section. 1 side of front **** 3 which blockades opening is supported to revolve, and it hinges free opening] (illustration ellipsis). front **** 3 is formed in the shape of a frame -- having -- equipment [machine / pachinko / 2 / usual] is possible -- carrying out -- the return sphere counter 8 -- a counter 4 top -- one ---like -- attachment **** said return sphere counter 8 is formed corresponding to a lower pan, and is shown in a counter 4 at installation or drawing 5 -- as -- a large-scale configuration -- forming -- counting -- it is formed so that management through figures may be carried out with a means, a display means, a printing means, a settlement-of-accounts means, and a receipt issue means On the other hand, front **** 3 is wide opened in the case of exchange attachment of the aforementioned pachinko machine 2, and it has removable composition from the rear-face side free. Opening which makes repair easy in the case of failure is prepared in the inferior surface of tongue of front **** 3 at the next, and the opening-and-closing door 10 supports an unilateral to revolve, and hinges it free [opening]. In addition, in illustration, although it is Mukai's open explanation on the other hand, an open state is not limited. Moreover, **** formation of the shelf 11 is carried out at the front-face side of the opening-and-closing door 10.

[0009] Furthermore a lighting system 15 is formed in the topmost part of a framework 20, and a calling device 16 and the grand prize flash plate 17 are formed in one by the shape of ****. Although ****-like equipment explains the configuration of a lighting system 15, and a lighting means by this invention, the configuration of them which heightens the ornament effect is made free to selectable formation.

[0010] Based on drawing 2 or drawing 3, rear-face structure is explained below. The out sphere socket 21 which accumulates the sphere emitted from said return sphere counter 8 is formed, a contact free passage is carried out, polish equipment 22 (illustration ellipsis) is horizontally formed in the out sphere socket 21, and set-up formation of the transfer-by-lifting machine 23 which is perpendicular and goes up the end section of the pachinko machine 2 is carried out from the termination of polish equipment 22. A upper tank 24 is formed in the trailer of the transfer-by-lifting machine 23, and it is constituted so that a sphere may be introduced from a upper tank 24 to the awarded-balls tank 25.

[0011] In addition, let the circulator style which holds the minimum number of balls needed for a game in equipment, carries out distinction management of the circulation sphere as a ball on hire and awarded balls with a computer control means, and once presents a game person, and ***** by return be a summary.

[0012] Although formed the game equipment which carried the function about a pachinko game in the independent framework 20 as mentioned above, two or more connection sections 26 were formed in the lateral portion of a framework 20, the fixed part 27 was respectively formed in the inferior-surface-of-tongue section of this framework 20 and the example of arrangement was shown in drawing 6 drawing 7, it corresponds to a hole situation, and defers and connects free, and the pachinko machine train in the series longitudinal direction arbitrary number is constituted.

[0013]

[Effect of the Invention] By the above explanation, the following effects are done so by making it the functional independent type pachinko equipment for every base of this invention so that clearly.

1. **** composition is possible with the specification product which can connect simple substance equipment with the situation in a hole free without limitation, and mass-production organization can be measured. Device selectors, such as not in-series equipment but a sinuate, are possible like a hole before, and the hole proposal which was rich in variety is made.
 2. Based on mass-production organization, it is large relief of a manufacture period with a labor cost and the kit method which can carry out assembly of anyone.
 3. Curtailment of manufacture unit price by reduction of section supply.
 4. The simple nature of **** carrying-in work and installation can be measured, and don't need many storage areas, either.
 5. Upgrade and individualization of an ornament portion are selectable.
- The epoch-making **** composition which the effect given economically and industrially above becomes serious, and is not in the former is offered.

[Translation done.]

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DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] It is the perspective diagram of the functional standalone version pachinko equipment concerning an example.

[Drawing 2] It is the perspective diagram showing the internal structure concerning an example.

[Drawing 3] It is the perspective diagram showing the internal structure concerning an example.

[Drawing 4] It is the front view showing the back structure concerning an example.

[Drawing 5] It is the perspective diagram showing an example besides this invention.

[Drawing 6] It is example drawing 1 of arrangement of this invention.

[Drawing 7] It is example drawing 2 of arrangement of this invention.

[Description of Notations]

- 1- Functional standalone version pachinko equipment,
- 2 and a pachinko machine,
- 3 and before ****,
- 4 and a counter,
- 8 and a return sphere counter,
- 10 and an opening-and-closing door,
- 11 and a shelf,
- 20 and a framework,
- 22 and polish equipment,
- 23 and a transfer-by-lifting machine,
- 26 and the connection section.

[Translation done.]

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CLAIMS

[Claim(s)]

[Claim 1] The framework of the abbreviation rectangle which carries out management through figures of the game sphere of a pachinko machine, and attaches it decoratively per pachinko machine in the mechanism in which it ***** is connected. Form free [fixation], and hinge front **** on this framework transverse plane, and a pachinko machine is formed in a center section possible [a decoration] free [attachment and detachment] in the shape of a frame. Equip with a return sphere counter on the counter of this front ****, and it forms free [opening and closing of the opening-and-closing door which prepared the shelf in the bottom of this front ****]. Functional independent type pachinko equipment which formed lighting and the call mechanism in this front **** upper part, carried out computer management of nothing and the circulation ball by distinction so that the ball of a constant rate might circulate automatically via a pachinko machine and a return sphere counter in this framework, and was constituted so that a display and a printer mechanism might be interlocked with.

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ABSTRACT:

PURPOSE: To provide an epoch-making playing device with a simple configuration which allows itself to be easily installed by building all related parts involved in the operation of pinball machines into an independent installation frame so that the device and related parts are integrally formed.

CONSTITUTION: A functional independent pinball machine 1

is hinged to a front frame door 3 provided with a mechanism for providing from the behind a single pinball machine 2 at the front central part of a frame 20 and has a counter 4 with a return ball count device 8 provided in the front frame door 3 so that the counter 4 can be easily removed. A closing door 10 with a fencing part 11 is provided at the waist part of the frame 20 in a manner that the door 10 can easily be opened and closed and a lighting device 15 and a calling device are formed at the top of the frame 20. The pinball machine 2 includes a polishing device and a ball collection mechanism which are linked, has internally provided a count managing computer and a deposit ball receipt issuance mechanism, and is formed so that the computer and a power line can be connected to a main line. This allows an epoch-making island configuration which is very effective in economic and industrial terms.

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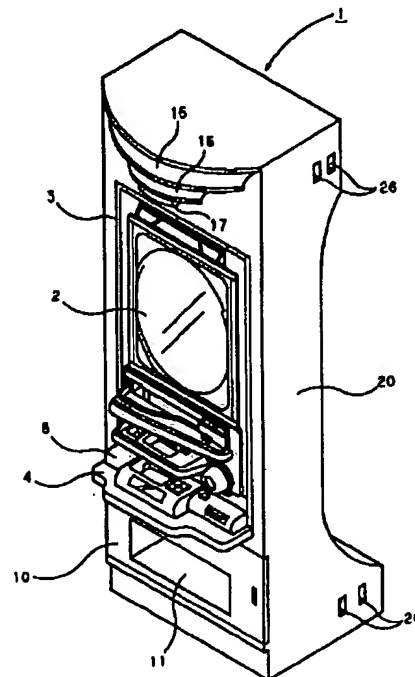
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(54)【発明の名称】 機能単独型パチンコ装置

(57)【要約】

【構成】 機能単独型パチンコ装置1は枠組20の前面中央部に1台のパチンコ機2を裏面より装設する機構を設けた前枠扉3を蝶着し、該前枠扉3には返却球計数装置8を装着したカウンター4を着脱自在に設け、該枠組20腰部に棚部11を設けた開閉扉10を開閉自在に装設し、該枠組20上部に照明装置15、呼出装置16を形成し、パチンコ機2に研磨装置と玉の集配球機構を連系させて装設し、パチンコ玉の計数管理コンピューターと預り玉レシートの発行機構を内装し、該コンピューター、電源線を主線に連結可能に形成した構成の機能単独型パチンコ装置。

【効果】 パチンコ機単体で遊技球の貸出と、遊技後の賞球返却による預り球の記録レシートの発行迄を行う装置と、遊技球の玉磨を含む一定数の循環機構を形成。呼出照明装置と遊技状況を管理するコンピューターを台別で内装した機構を自在に連結出来るように形成し、パチンコ機の配列を自由選択出来る効果。



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【特許請求の範囲】

【請求項1】パチンコ機の遊技球を計数管理し、集配給する機構において、
パチンコ機単位で装設する略長方形の枠組を連結、固定自在に形成し、該枠組正面に前枠扉を螺着し、中央部にパチンコ機を額縁状に着脱自在に装設可能に形成し、該前枠扉のカウンター上に返却球計数装置を装着し、該前枠扉の下に柵部を設けた開閉扉を開閉自在に形成し、
該前枠扉上部に照明、呼出機構を形成し、
該枠組内に一定量の玉がパチンコ機及び返却球計数装置を経由して自動循環するようになし、
循環玉を区別でコンピューター管理し、表示、プリンター機構と連動するよう構成した機能単独型パチンコ装置。

【発明の詳細な説明】

【0001】

【産業上の利用分野】本発明は、パチンコ機稼働に関するすべての関連装置を各台別の単独装置内蔵型となして自在に連結可能に構成したことを特徴としたパチンコ装置に関するものである。

【0002】

【従来の技術】従来のパチンコ島台構成は、ホールのパチンコ機設置台数及びホール状況によって、オリジナル設計が通常で、従って島交流装置が各々異なる為、均一した規格製品での島台製造が不可能であった。その為、ホールの設計図完成後に島台製造着手と与儀なくされ、短期間で製造台数も限定されていた。また島台形成においても複雑作業工程で多くの人手と工事期間を要した。例えばパチンコ島台製造手段として、予めパチンコ機収容台数に対応して1島台単位（6台、4台、2台等）の木枠組を形成し、1島台の設置総台数に応じて複数連結し一連状の島台を形成する。

【0003】さらに島台中央に大型玉磨揚送装置を配備し、該玉磨揚送装置に関連して、上部に補給タンク、下部に大型貯留タンクを設け、各パチンコ機から排出される球を、島交流装置で円滑に循環する装置は、必要以上の玉量と大掛かりな装置をオリジナル製品とする製造手段は量産不可能で経済性および作業性においても問題が多かった。

【0004】

【発明が解決しようとする課題】本発明は、パチンコ機稼働に付随するすべての関連部品をパチンコ機単独設置用枠組内に内蔵装備し、一体形成とすることでいかなるホール状況に関係されることなく、簡略、据置型構成とした画期的な遊技装置を提供し、均一化した規格製品で、量産体制可能とするものである。

【0005】

【課題を解決する手段】前記した目的を達成するために本発明に係る機能単独型パチンコ装置は、パチンコ機単

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位で装設する略長方形の枠組を連結、固定自在に形成し、該枠組正面に前枠扉を螺着し、中央部にパチンコ機を額縁状に着脱自在に装設可能に形成し、該前枠扉のカウンター上に返却球計数装置を装着し、該前枠扉の下に柵部を設けた開閉扉を開閉自在に形成し、該前枠扉上部に照明、呼出機構を形成し、該枠組内に一定量の玉がパチンコ機及び返却球計数装置を経由して自動循環するようになし、循環玉を区別でコンピューター管理し、表示、プリンター機構と連動するよう構成したことを特徴とするものである。

【0006】

【作用】枠組20にパチンコ機2の稼働に付随するすべての部備品を内蔵し、枠組20の側面に設けた連結部26及び固定部27で任意な配列で設置構成する。パチンコ機2の交換、保守の場合前枠扉3を開放し着脱自在とする。また、遊技者の遊技状態に基づき返却球計数装置8で計数管理される。また、貸玉、及び賞球としての循環玉をコンピューター手段で区別管理するよう構成されている。パチンコ機2から排出される球はアウト球受口21に集積され、研磨装置22、揚送機23を経由して上部タンク24へ流入し、パチンコ機2の賞球タンク25へ導入される。

【0007】

【実施例】以下図面を参照して本発明を詳細に説明する。図1は、機能独立型パチンコ装置1（以下パチンコ装置と略称）の全体斜視図を示し、図2は、パチンコ装置1のパチンコ機2の取付部とする前枠扉3を開放した図を示す。

【0008】パチンコ装置1の構成についてさらに詳述すれば、略パチンコ機2横幅で、断面略長形状に枠組20を形成した箱体の前面を装飾板で被覆し、その中央部にパチンコ機2の取付部を開口形成する。開口部を閉塞する前枠扉3の1側を軸支して開放自在に螺着する（図示省略）。前枠扉3は額縁状に形成され、通常のパチンコ機2を装置可能とし、返却球計数装置8をカウンター4上に一体的に取付られる。前記した返却球計数装置8は、下皿に対応して形成されカウンター4に載置、あるいは図5に示すように大型形状で形成し、計数手段、表示手段、印字手段、精算手段、レシート発行手段で計数管理をするように形成されている。一方前記パチンコ機2の交換取付の際は前枠扉3を開放し裏面側から自在に着脱可能構成となっている。つぎに前枠扉3の下面に故障の際修理作業を容易とする開口部を設け、開閉扉10は一侧を軸支し開放自在に螺着する。尚図示では一方向の開放説明であるが開放状態は限定するものではない。また開閉扉10の表面側に柵部11を囲設形成する。

【0009】さらに枠組20の最上部に照明装置15を形成し、略段状で呼出装置16、特賞フラッシュ17を一体的に形成する。照明装置15の形状、照明手段は、

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本発明では筒円状装置で説明するが、装飾効果を高める形状等自在に選択可能形成とする。

【0010】つぎに図2乃至図3に基づき裏面構造を説明する。前記した返却球計数装置8から放出された球を集積するアウト球受口21を形成し、アウト球受口21に当接連通して水平方向に研磨装置22（図示省略）を設け、研磨装置22の終端からパチンコ機2の一端部を垂直で上昇する揚送機23を立設形成する。揚送機23の終端部に上部タンク24を設け、上部タンク24から賞球タンク25へ球を導入するよう構成されている。

【0011】尚遊技に必要なとする最少限の玉数を装置に収容し、コンピューター制御手段で貸玉及び賞球として循環球を区別管理し、遊技者に一旦供し、そして返却により即回収する循環機構を要旨とするものである。

【0012】以上のようにパチンコ遊技に関する機能を単独枠組20に搭載した遊技装置を形成し、枠組20の側面部に連結部26を複数箇所形成し、該枠組20の下面部に固定部27を各々形成し、図6図7に配置例を示したがホール状況に対応して自在に据置、連結し一連長手方向任意台数でのパチンコ機列を構成するものである。

【0013】

【発明の効果】以上の説明で明らかなように、本発明の各台ごとの機能単独型パチンコ装置にすることで、以下の効果を奏する。

1. ホール内状況に限定なく単体装置を自在に連結できる規格製品で島台構成が可能で量産体制がはかれる。従来ホールのように直列的装備でなく、波状等装置選択が可能でバラエティーに富んだホール提案が出来る。

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2. 量産体制に基づき人件費、そして誰でも組立出来るキット方式で製造期間の大幅な緩和。

3. 部備品の減少による製造単価の削減。

4. 島台搬入作業、設置作業の簡便性がはかれ、保管場所も多く必要としない。

5. 装飾部分のグレードアップと個性化が選択可能。

以上経済的、産業的に付与する効果は甚大となり、従来にはない画期的な島台構成を提供するものである。

【図面の簡単な説明】

【図1】実施例に係る機能独立型パチンコ装置の斜視図である。

【図2】実施例に係る内部構造を示す斜視図である。

【図3】実施例に係る内部構造を示す斜視図である。

【図4】実施例に係る裏構造を示す正面図である。

【図5】本発明他の実施例を示す斜視図である。

【図6】本発明の配置例図1である。

【図7】本発明の配置例図2である。

【符号の説明】

1・機能独立型パチンコ装置、

2・パチンコ機、

3・前枠扉、

4・カウンター、

8・返却球計数装置、

10・開閉扉、

11・棚部、

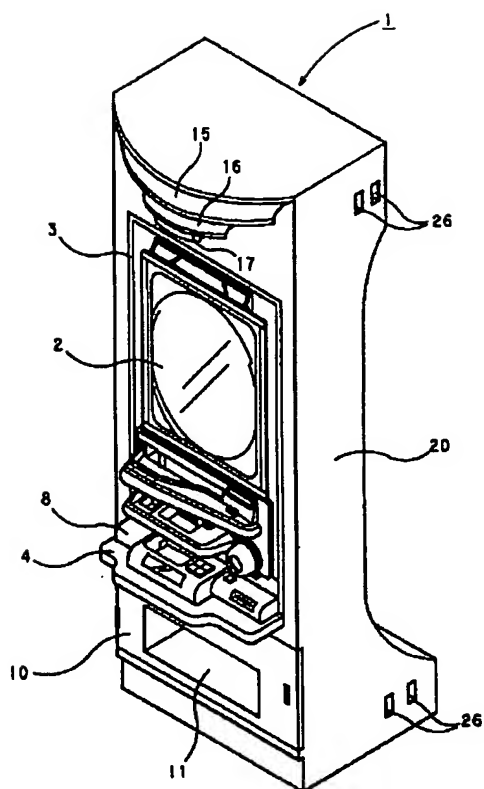
20・枠組、

22・研磨装置、

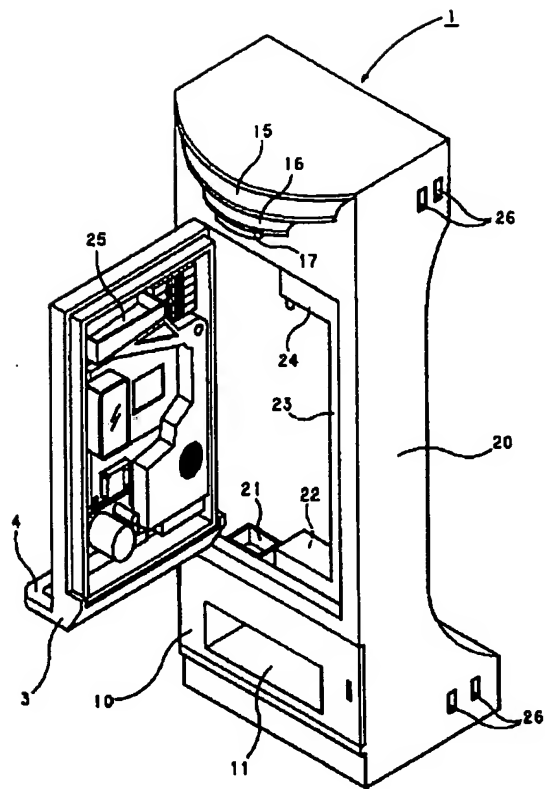
23・揚送機、

26・連結部。

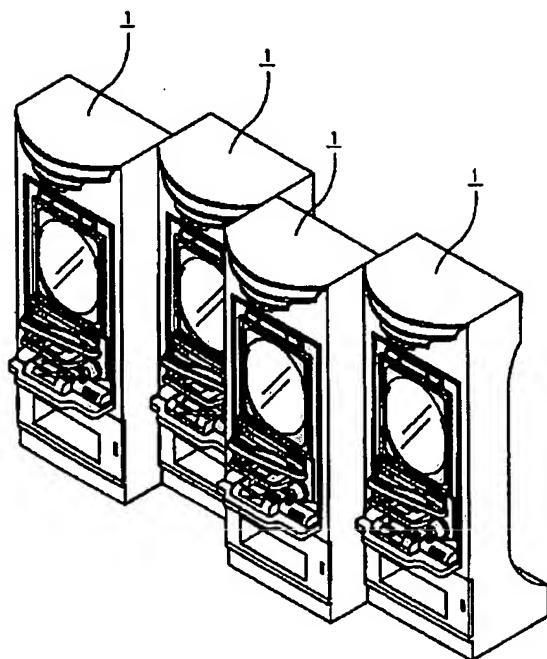
【図1】



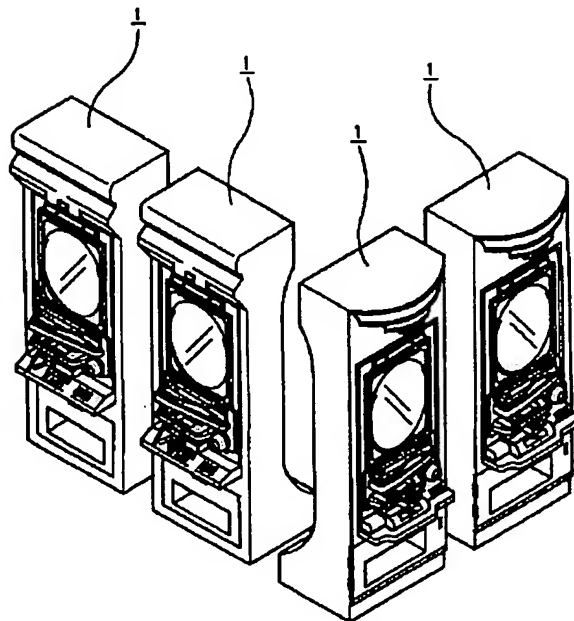
【図2】



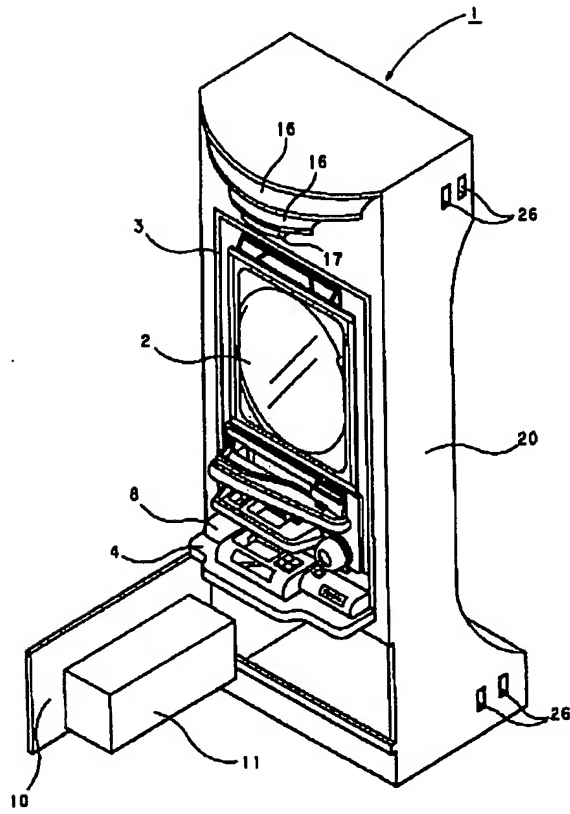
【図6】



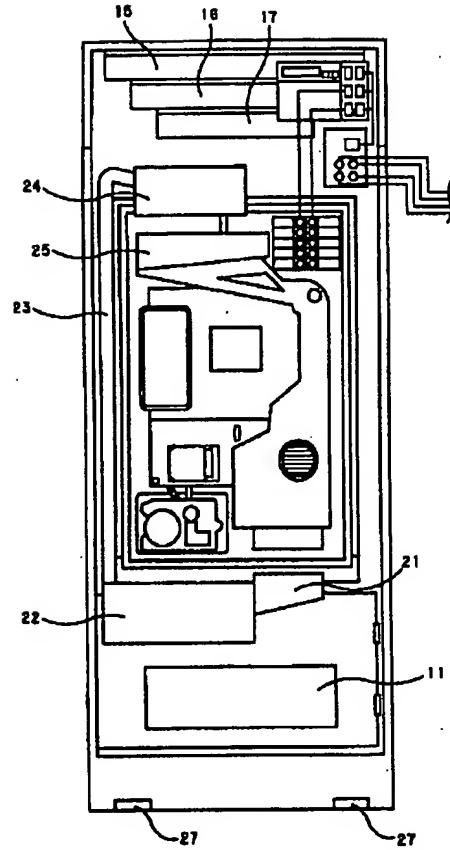
【図7】



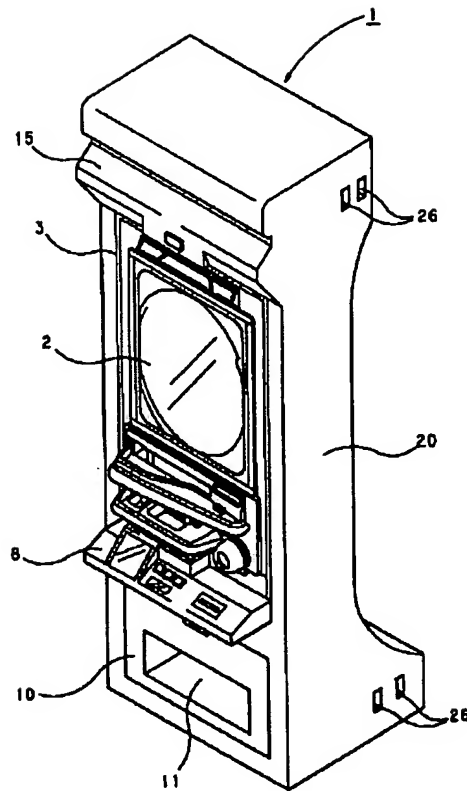
【図3】



【図4】



【図5】



【手続補正書】

【提出日】平成4年12月4日

【手続補正1】

【補正対象書類名】明細書

【補正対象項目名】図面の簡単な説明

【補正方法】変更

【補正内容】

【図面の簡単な説明】

【図1】実施例に係る機能単独型パチンコ装置の斜視図である。

【図2】実施例に係る内部構造を示す斜視図である。

【図3】実施例に係る内部構造を示す斜視図である。

【図4】実施例に係る裏構造を示す正面図である。

【図5】本発明他の実施例を示す斜視図である。

【図6】本発明の配置例図1である。

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26・連結部。